2) 1ère méthode m'thode des 63% :

A t=$\tau$ $\rightarrow$ $U_C$ =0,63E=0,63×12=7,56V $\Rightarrow$ $\tau$=3ms

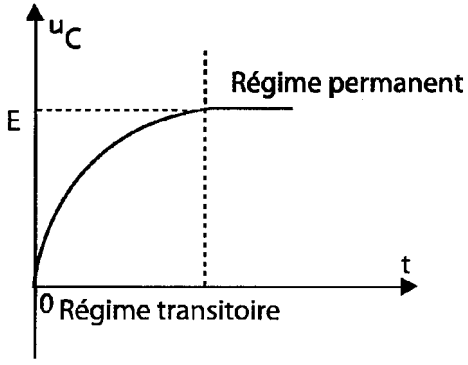
2ème méthode : méthode de la tangente à l'origine

L'intersection de la tangente à l'origine avec l'asymptote à la courbe.

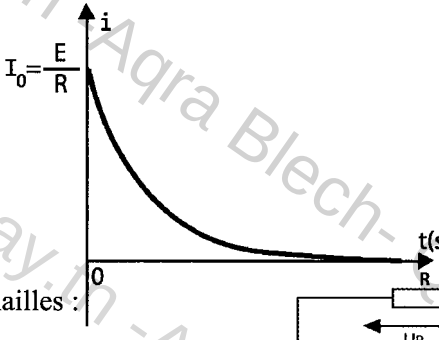
$U_C = E$ se fait à t=$\tau$. Graphiquement $\tau$=3ms

$$\tau = RC \Rightarrow C = \frac{\tau}{R} = \frac{3.10^{-3}}{200} = 1,5.10^{-5} F = 15\mu F$$

3)




4)



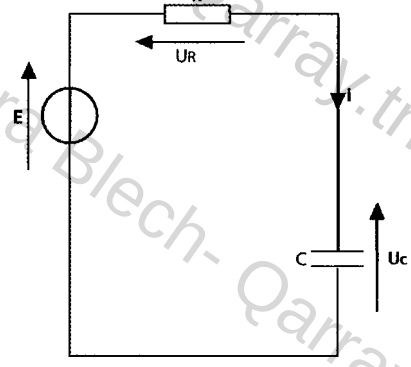

5) Loi des mailles :

$u_C + u_R - E = 0$

$u_C + u_R = E$

$u_C + R_1 \frac{dq}{dt} = E$

$u_C + R_1 C \frac{du_C}{dt} = E$




Qarray.tn Aqra Blech- Qarray.tn
Qarray.tn -Aqra Blech- Qarray.tn